

Claims

1. A brush part for an electric toothbrush, with a carrier tube (4) movably mounting therein a drive translator (23) adapted to be coupled to a drive (7, 11, 12) in the handle part, and with a movably mounted bristle carrier (6) mounting a set of bristles (20) and being adapted to be driven in oscillatory manner by the drive translator (23), characterized in that provision is made for a pressure fluid device for applying fluid under pressure to the teeth to be cleaned and/or to the bristle set (20), with a pressure fluid supply being arranged in the interior of the drive translator (23).

2. The brush part according to claim 1 wherein the drive translator (23) is constructed as a hollow shaft mounted in the carrier tube (4) for rotation about its longitudinal axis and having at its end close to the handle part a coupling member (25) for coupling to a drive element (12) of the handle part, said coupling member (25) comprising a fluid coupling through which the fluid channel (32) in the interior of the hollow shaft is connectible with a fluid channel (18) in the interior of the drive element (12) of the handle part.

3. The brush part according to any one of the preceding claims wherein the pressure fluid device comprises a pressure fluid outlet orifice (30), in particular an outlet nozzle, in the movable bristle carrier (6), preferably in the area of the bristle set (20), said orifice communicating with a pressure fluid supply channel in the interior of a bearing pin (22) of the bristle carrier (6), and said bristle carrier (6) being preferably mounted for rotation on the carrier tube (4) by means of a pivot pin of hollow construction.

4. The brush part according to any one of the preceding claims wherein the carrier tube (4) has in its wall a pressure fluid supply channel (29) connecting preferably the pressure fluid channel in the drive translator (23) with a pressure fluid channel in the bristle carrier (6), in particular terminating with its one end in a bearing section (28) for carrying the drive translator (23) and with its other end in a bearing section for carrying the bristle carrier (6).

5. The brush part according to any one of the preceding claims wherein the pressure fluid supply dispenses with separate flexible tubes and/or is formed exclusively in the interior of functional components of the brush part.

6. The handle part of an electric toothbrush, with a motor (7) which drives in a preferably oscillatory manner a drive element (12) adapted to be coupled to a drive element (23) in the brush part via a gear step (11), in particular a four-bar linkage, and with a pressure fluid conveying device (10) driven by the motor, characterized in that the pressure fluid conveying device (10) is seated between the motor (7) and the gear step (11) and is driven, together with the gear step (11), by a common drive element (9).

7. The handle part according to the preceding claim wherein the pressure fluid conveying device (10) is seated on an eccentric element (9) connected to the motor shaft (8) and carries an eccentric element (9) for driving the gear step (11).

8. The handle part according to any one of the preceding claims wherein the the pressure fluid conveying device is an air pump (10).

9. The handle part according to any one of the preceding claims wherein the drive element (12) drivable in oscillatory manner has in its interior a pressure fluid channel (18) communicating with the pressure fluid conveying device (10) and is constructed preferably as a rotatably mounted hollow shaft.

10. The handle part according to any one of the preceding claims wherein the drive element (12) drivable in oscillatory manner includes a coupling member (19) for coupling to a drive element (23) in the brush part, said coupling member (19) comprising a fluid coupling.

11. The handle part according to any one of the preceding claims wherein the drive element (12) drivable in oscillatory manner is connected to the fluid outlet (14) of the pressure fluid conveying device (10) through a flexible tube (15), said drive element (12) being preferably drivable by means of a connecting rod (17) and the flexible tube (15) being connected to the connecting rod (17) which has in its interior a pressure fluid channel (16) communicating with the pressure fluid channel (18) in the drive element (12) drivable in oscillatory manner.

12. The handle part according to any one of the preceding claims wherein the pressure fluid conveying device (10) has a pump casing separate from the handle part housing (2), being in particular constructed as a separate assembly.

13. The handle part according to any one of the preceding claims wherein on the handle part housing (2) provision is made for a connector (13) for the releasable fastening of a carrier tube (4) of a brush part (3), said connector (13) being constructed to be free from a drive coupling and free from a pressure fluid coupling.

14. An electric toothbrush with a handle part (1) according to any one of the preceding claims and/or a brush part (3) according to any one of the preceding claims.